



CALL FOR PROJECT ASSOCIATES in DST-PURSE Interdisciplinary Project

Applications are invited from Indian citizens for the post of Project Associates-I and II in a DST-PURSE-funded project SR/PURSE-2020/20 at BITS-Pilani Hyderabad Campus.

Title of the Research Project: Development of Theranostic Agents for Photodynamic/ Photothermal Treatment of Oral/Lung Cancer and Related Diseases

Project details and Desirables: (i) Design of novel BODIPY, aza-BODIPY, porphyrin and chlorin-based sensitizers for imaging and PDT (ii) Development of nanoparticles and surface functionalized systems for imaging and PTT Effective conjugation of these sensitizers and NPs with folic acid and antibodies for targeted PDT/PTT, (iii) Development of localized delivery approach using microneedles and NPs for the targeted PDT/PTT (iv) Demonstration of combination therapy employing PDT /PTT (v) Two-photon bioimaging using the developed sensitizers

No of posts: 1 (one)

Minimum qualifications:

M.Sc. in Chemistry (mainly synthetic Organic chemistry; however, M. Sc. in general chemistry can also apply with a minimum of 60% marks with expertise in organic synthesis and a basic understanding of spectroscopy would also be eligible.

Desired experience:

The candidates should be capable of synthesizing and characterizing new molecules.

The project deals in an interfacial area between chemistry/optics and biology. Experienced students with a reasonable understanding of the subjects would be preferred.

Age: max 27 years; **Joining date:** As soon as possible; **Position:** Project associates I and II
Salary: Maximum up to INR 35,000-40,000 (approx.; consolidated for GATE/NET candidates; Non-GATE/NET candidate: as per rule)

Duration: ~ 3.0 years (Ph. D option is also open as per the institute norm)

Candidates meeting the above-mentioned qualification and experience should send their CV to dstpurbphc@gmail.com by **9 pm on 8th Juneth 2023**

Interviews will be conducted online (mainly google meet)/hybrid mode only for the selected candidates by June 2nd week. The selection committee's decision regarding the interview logistics and selection process for the post will be final. The selection committee reserves the right to fill or not fill the advertised post.

